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(FYUGP)

(3rd Semester)

COMMERCE

(Major)

Paper Code : BC/C5

(Business Statistics)

Full Marks : 75
Pass Marks : 40%

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. *(a)* Mention the important sources of primary data. Discuss their merits and demerits. 5+10=15

   Or

   (b) Define classification. Explain in detail the different types of classification. 5+10=15

(*Turn Over*)

2. (a) What do you mean by measures of dispersion? Distinguish between absolute and relative measures of dispersion.   5+10=15

Or

(b) Calculate mean and median from the following data :   8+7=15

Marks	60	75	45	80	40	70	85
No. of Students	6	4	10	2	7	3	1

3. (a) Find rank correlation coefficient for the following data and give your comments :   13+2=15

Marks in Statistics (x)	84	56	89	58	59	67	74	78
Marks in Law (y)	38	69	56	58	63	78	87	77

Or

(b) Explain the concept of regression. What are the two methods of obtaining regression lines? Discuss.   5+10=15

4. (a) Describe in detail the various methods of constructing of an index number.   15

Or

(b) Calculate the trend values by the method of least squares from the data given below and estimate the sales for the year 2015 : 15

Year	2006	2007	2008	2009	2010
Sales of TV (in '000)	12	18	20	23	27

5. (a) What do you understand by the term 'probability'? State and prove the addition and multiplication theorems of probability. 5+10=15

Or

(b) A card is drawn at random from a well-shuffled deck of 52 cards. Find the probability of getting—

(i) a queen;

(ii) a red card;

(iii) a spade card. 5+5+5=15

★ ★ ★